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The author verified, both at Liverpool and at London, the existence of a fact similar to that which M. Daussey had ascertained at Brest, namely, the rise of the ocean when the barometer is depressed; and remarks that the correction due to changes in the atmospheric pressure is by no means inconsiderable. He suggests the question whether the surface of the ocean rises in narrow seas simultaneously with the depression of the barometer, or otherwise. With a view to the solution of this question, he gives a tabular diagram showing the correspondence between the calculated and the observed heights, in their relation to the heights of the barometer at Liverpool and at London, from which it would appear that the effect of changes in the atmospheric pressure on the tide is immediate.

“On an improved mode of constructing Magnets.” By James Cunningham, Esq., Member of the Cork Scientific and Literary Society. Communicated by North Ludlow Beamish, Esq., F.R.S., President of that Society.

The material recommended by the author for the most economical, as well as effectual method of constructing magnets, is cast iron, which should be formed in small castings in the form of a horse-shoe, each weighing about seven ounces; these he finds, on being touched in the usual manner by a small compound magnet, received and retained the impregnation better than any which he had previously constructed of steel.

The Society then adjourned over the long vacation, to meet again on the 16th of November next.